Declaration and Initialization Exercises

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Universal Initialization

- What is meant by universal initialization in C++?
- Write a program which demonstrates universal initialization of built-in types and objects with single and multiple initial values

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Advantages of Universal Initialization

- What are the advantages of universal initialization?

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Nested template declaration

- Is this code legal in Modern C++?

```
vector<vector<int>> vec_of_vec;
```

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Type alias

- What is meant by a "type alias"? Why is it useful?
- Rewrite the following type alias using the Modern C++ alternative

```
typedef vector<int> IntVec;
vector<IntVec> vec_of_vec;
```

- Compile your answer to check it is correct

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nullptr

- Modern C++ gives us nullptr as an alternative to NULL
- Are there any advantages to using nullptr?

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